

Abstract**Phosphor-based LED and associated phosphor**

An LED with inorganic phosphor, an LED chip emitting primary radiation in the range of 300 to 470 nm, this radiation being converted partly or completely into longer-wave radiation by at least one phosphor which is exposed to the primary radiation of the LED, the conversion being achieved at least with the assistance of a phosphor of a mean particle size d_{50} that lies in the range of 1 to 50 nm, preferably 2 to 25 nm.

Figure 2